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## CRMP-5 neuronal autoantibody: marker of li cancer and thymoma-related autoimmunity.

Yu Z, Kryzer TJ, Griesmann GE, Kim K, Benarroch E  
VA.

Department of Immunology, Mayo Clinic, Rochester, MN  
USA.

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We have defined a new paraneoplastic immunoglobulin G (IgG) autoantibody specific for CRMP-5, a previously unknown (neuro) neuronal cytoplasmic protein of the collapsin response-mec (CRMP-5) is in adult central and peripheral neurons, including and in small-cell lung carcinomas. Since 1993, our Clinical Neuroimmunology Laboratory has detected CRMP-5-IgG in patients among approximately 68,000 whose sera were sub standardized immunofluorescence screening because a sub neurological presentation was suspected to be paraneoplast makes CRMP-5 autoantibody as frequent as PCA-1 (anti-Y autoantibody, second only to ANNA-1 (anti-Hu). Clinical i

obtained for 116 patients, revealed multifocal neurological remarkable were the high frequencies of chorea (11%) and neuropathy (17%, including 10% loss of olfaction/taste, 7% neuropathy). Other common signs were peripheral neuropathy (31%), cerebellar ataxia (26%), subdementia (25%), and neuromuscular junction disorders (12%). Cerebrospinal fluid was inflammatory in 86%, and CRMP-5-IgG in 37% significantly exceeded serum titers. Lung carcinoma (mostly small-cell) was found in 77% of patients; thymoma was in those remaining had miscellaneous neoplasms; all but two smokers. Serum IgG in all cases bound to recombinant CRMP-5 (predominantly N-terminal epitopes), but not to human CRMP-3.

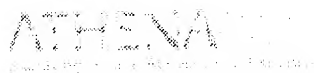
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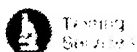
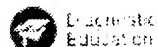
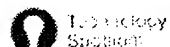
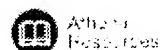
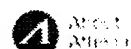
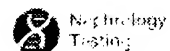
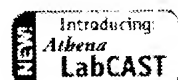
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# Recomb™ CV2 Autoantibody Test - #123

**Type of Disorder:** Paraneoplastic Syndromes  
**Disease(s) tested for:** CV2 paraneoplastic syndrome  
 Paraneoplastic neurological disorders (PNDs)  
**Synonym(s):** POP66  
 ULIP

### Test Details

**Test Code:** 123  
**Profiles that Contain this Test:** [NeoCerebellar Degeneration Paraneoplastic Profile](#)  
[NeoComplete Paraneoplastic Profile](#)  
[NeoEncephalitis Paraneoplastic Profile](#)  
[NeoSensory Neuropathy Paraneoplastic Profile](#)  
**Price:** \$215  
**Special Notes:** NEW from Athena Diagnostics as of 10/2/2000. CV2 is also known as POP66 and ULIP.  
**References:** [Paraneoplastic Syndromes](#)

### Technical Information

**Utility:** Detection of anti-CV2 autoantibodies using recombinant human antigens.  
**Methodology:** Western blot  
**Reference Value:** Negative  
**CPT Code(s):** 84182 (1)  
**Patents:** Pending

### Shipping Considerations

**Specimen Type:** Serum preferred or whole blood  
**Minimum Volume:** 1 (2ml) serum or 1 (8.5ml) whole blood  
**Collection Tube:** Red top  
**Storage Conditions:** Refrigerate if not shipped same day. Serum stable up to two weeks. Ship whole blood immediately.  
**Shipping Conditions:** Room temperature, ship same day

**Conditions:** Room temperature, ship same day  
**Test Setup:** Tuesday, Thursday  
**Test Turnaround:** 5-7 days

Order Test

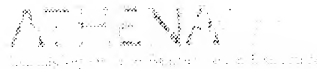
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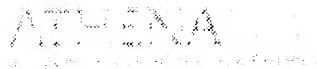
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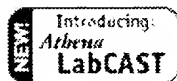
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